

Revolution™

Warning Series LED Lightheads

Custom Default Configurations

INSTRUCTION MANUAL

Please refer to the following documents for complete Installation and Programming instructions:

- IS0672A Revolution Warning Instruction Manual
- IS0803A Revolution Multifunction R79LVD13-xxW Instruction Manual
- IS0808A Revolution Multifunction R79LV13-xW Single Instruction Manual
- IS0899 Revolution Multifunction R37LVD13-xxW Instruction Manual
- IS0900 Revolution Multifunction R37LV13-xW Single Instruction Manual

WIRES

INTERNAL FLASHER (SMART MODE)

- RED Connect to Battery +12Vdc thru +24Vdc to activate
- BLACK Connect to Battery GROUND
- YELLOW Sync Line
- BLUE Alternate Flash Pattern

DIRECT CONTROL

- RED Connect to Battery +12Vdc thru +24Vdc to activate (Active Low Inputs Only)
- BLACK Connect to Battery GROUND (Active High Inputs Only)
- YELLOW Side A or Color 1
- BLUE Side B or Color 2

DEFAULT SETTINGS

For the R46-W-RW-00:

Direct Control Mode, Inputs are Active High.

YELLOW wire Left Half
BLUE wire Right Half

For the R37-W-R-01, R46-W-R-01 and R79-W-R-01:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R37-W-R-02, R46-W-R-02 and R79-W-R-02:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 1 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R37-W-R-03 and R37-W-A-03:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 0 pattern, Single flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R37-W-R-04 and R37-W-A-04:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 1 pattern, Single flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R37-W-R-11, R37-W-A-11 and R37C-W-R-11:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Steady Burn pattern, Neobe flash, 150 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R37V-W-AB-18:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Alternating pattern, Double flash, 250 FPM,
Top/Bottom Quadrant Split, Color 1 (colors x & y), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Top/Bottom Quadrant Split, Color 1 (colors x & y), Full Brightness.

For the R46-W-R-11, R46-W-A-11 and R46C-W-R-11:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Steady Burn pattern, Neobe flash, 150 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R79-W-R-11, R79-W-A-11 and R79C-W-R-11:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Steady Burn pattern, Neobe flash, 150 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R79X-W-AA-12 and R79X-W-RB-12:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Alternating pattern, Double flash, 250 FPM,
Diagonal Dn/Up Quadrant Split, Color 1 (colors x & y), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Diagonal Dn/Up Quadrant Split, Color 1 (colors x & y), Full Brightness.

For the R79X-W-AA-13 and R79X-W-RB-13:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Alternating pattern, Double flash, 250 FPM,
Diagonal Up/Dn Quadrant Split, Color 1 (colors x & y), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Diagonal Dn/Up Quadrant Split, Color 1 (colors x & y), Full Brightness.

For the R79-W-W-15:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Flicker pattern, Double flash, 250 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R46-W-R-25:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R46-W-R-26:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 1 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R46D-W-RW-00:

Direct Control Mode, Inputs are Active High.

YELLOW wire Color 1 (color x)
BLUE wire Color 2 (color y)

For the R37D-W-RW-01, R46D-W-RW-01 and R79D-W-RW-01:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color y), Full Brightness.

For the R37D-W-RW-02, R46D-W-RW-02 and R79D-W-RW-02:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 1 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color y), Full Brightness.

For the R37D-W-RW-03, R46D-W-RW-03 and R79D-W-RW-03:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Flicker pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2:1 (color y then x), Full Brightness.

For the R37D-W-RW-04, R46D-W-RW-04 and R79D-W-RW-04:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 1 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Flicker pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1:2 (color x then y), Full Brightness.

For the R37D-W-RW-11, R46D-W-RW-11 and R79D-W-RW-11:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Steady Burn pattern, Neobe flash, 150 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color y), Full Brightness.

For the R46D-W-RW-05:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Flicker pattern, Single flash, 75 FPM,
Left/Right Quadrant Split, Color 2:1 (color y then x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Single flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R46D-W-RW-06:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Flicker pattern, Single flash, 75 FPM,
Left/Right Quadrant Split, Color 1:2 (color x then y), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 1 pattern, Single flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R46LLD-W-RAW-01:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Alternating pattern, Neobe flash, 75 FPM,
Right/Left Quadrant Split, Color 1 (colors x & y), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash 75 FPM,
Left/Right Quadrant Split, Color 2 (color z), Full Brightness.

For the R46LLD-W-RAW-02:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Alternating pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (colors x & y), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash 75 FPM,
Left/Right Quadrant Split, Color 2 (color z), Full Brightness.

For the R46LD-W-RBW-14:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Alternating pattern, Double flash, 250 FPM,
Left/Right Quadrant Split, Color 1 (colors x & y), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color z), Full Brightness.

For the R79D-AR-09:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Flicker pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2:1 (color y then x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color y), Full Brightness.

For the R79D-AR-10:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Flicker pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1:2 (color x then y), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color y), Full Brightness.

For the R79XD-W-RBW-16:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Alternating pattern, Double flash, 250 FPM,
Diagonal Dn/Up Quadrant Split, Color 1/2 (colors x & y then z),
Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Diagonal Dn/Up Quadrant Split, Color 2 (color z), Full Brightness.

For the R79XD-W-RBW-17:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Alternating pattern, Double flash, 250 FPM,
Diagonal Up/Dn Quadrant Split, Color 1/2 (colors x & y then z),
Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Diagonal Dn/Up Quadrant Split, Color 2 (color z), Full Brightness.

For the R46D-W-AR-19:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Flicker pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2:1 (color y then x), Full Brightness.

Alternate Flash Pattern: Flicker pattern, Neobe flash, 120 FPM,
Left/Right Quadrant Split, Color 2:1 (color y then x), Full Brightness.

For the R46D-W-AR-20:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Flicker pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1:2 (color x then y), Full Brightness.

Alternate Flash Pattern: Flicker pattern, Neobe flash, 120 FPM,
Left/Right Quadrant Split, Color 1:2 (color x then y), Full Brightness.

For the R79LV13-RW-00:

Direct Control Mode, Inputs are Active High.

Primary Flash Pattern: Direct Control, Neobe flash, 150 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R79LV13-RW-01:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R79LV13-RW-02:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 1 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R37LV13-AW-03:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R37LV13-AW-04:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 1 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

For the R37LVD13-AWW-01, R79LVD13-RAW-01:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Flicker pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1:2 (color x then y), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color y), Full Brightness.

For the R37LVD13-AWW-02, R79LVD13-RAW-02:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Flicker pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2:1 (color y then x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color y), Full Brightness.

For the R79LVD13-RWW-23:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 0 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color y), Full Brightness.

For the R79LVD13-RWW-24:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Simultaneous Phase 1 pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1 (color x), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color y), Full Brightness.

For the R79LLD-RBW-29:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Combination pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 1/2 (colors x & y, then z), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color z), Full Brightness.

For the R79LLD-RBW-30:

Smart Control Mode, Inputs are Active High.

Primary Flash Pattern: Combination pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2/1 (color z, then x & y), Full Brightness.

Alternate Flash Pattern: Steady Burn pattern, Neobe flash, 75 FPM,
Left/Right Quadrant Split, Color 2 (color z), Full Brightness.

Addendum A

SELECTABLE FLASH TYPE & RATE

1. Neobe flash 150 FPM
2. Neobe flash 120 FPM
3. Neobe flash 75 FPM
4. Double flash 250 FPM
5. Double flash 125 FPM
6. Double flash 75 FPM
7. Single flash 375 FPM
8. Single flash 150 FPM
9. Single flash 120 FPM
10. Single flash 75 FPM

Use the Sync wire (YELLOW) to step through the Flash Type & Rate table.

Single Tap - Step Forward

Double Tap - Step Backward

Touch and Hold ⁵ - Reset to Defaults and Toggles the Dim Setting (Bright or Dim)

SELECTABLE PATTERN

1. Alternating
2. Simultaneous [Phase 0] ⁷
3. Combo (2 cycles alt + 2 cycles sim) ⁷
4. California steady (half flashing, half steady) ⁷
5. Simultaneous [Phase 1] ⁷
6. Flicker
7. Clockwise ⁸
8. Counter Clockwise ⁸
9. Steady Burn ⁷
10. Multi flash 1 ⁶
11. Multi flash 2 ⁶
12. Multi flash 3 ⁶
13. Direct Control ¹

Use the Alternate wire (BLUE) to step through the Pattern table.

Single Tap - Step Forward

Double Tap - Step Backward

Touch and Hold ⁵ - Step through the Color settings²:
Color 1
Color 2
Color 1/2 (1 then 2)
Color 2/1 (2 then 1)
Color 1:2
Color 2:1

SELECTABLE QUADRANTS ³

1. Left/Right
2. Top/Bottom
3. Diagonal D/U
4. Right/Left
5. Bottom/Top
6. Diagonal U/D

Use the Sync and Alternate wires (YELLOW & BLUE) to step through the Quadrant table.

Single Tap - Step Forward

Double Tap - Step Backward

Touch and Hold ⁵ - Toggles the Inputs Active State⁴ setting (High or Low).

CONFIGURATION SELECTION NOTES:

- 1) Direct Control is only selectable from the Primary Pattern selection.
- 2) The Color Settings are only available on the Dual Color models.
 - Color 1 Flash Patterns only use Color 1.
 - Color 2 Flash Patterns only use Color 2.
 - Color 1/2 Flash Patterns switch colors every time through a pattern. The first time through the pattern, Color 1 is used, the second time through the pattern Color 2 is used.
 - Color 2/1 Flash Patterns switch colors every time through a pattern. The first time through the pattern, Color 2 is used, the second time through the pattern Color 1 is used.
 - Color 1:2 Flash Patterns use Color 1 for Side A and Color 2 for Side B.
 - Color 2:1 Flash Patterns use Color 2 for Side A and Color 1 for Side B.
- 3) The Quadrants are Upper Left (UL), Upper Right (UR), Lower Left (LL) and Lower Right (LR).
 - Left Quadrants are UL and LL.
 - Right Quadrants are UR and LR.
 - Top Quadrants are UL and UR.
 - Bottom Quadrants are LL and LR.
 - Diagonal D(own) Quadrants are UL and LR.
 - Diagonal U(p) Quadrants are LL and UR.
- 4) Input Active State settings are High and Low. High means the input wire must be connected to +Vdc to activate the function. Low means the input wire must be connected to Ground to activate the function.
- 5) The hold time for the Touch and Hold action is 3 seconds.

6) Patterns in the Multi Pattern Combinations.

- Multi 1: A) NEOBE FLASH 150 ALTERNATE.
 B) DOUBLE FLASH 250 SIMULTANEOUS PHASE 0.
 C) SINGLE FLASH 375 ALTERNATE.
 D) NEOBE 150 SIMULTANEOUS PHASE 0.

- Multi 2: A) NEOBE FLASH 75 ALTERNATE.
 B) DOUBLE FLASH 125 SIMULTANEOUS PHASE 0.
 C) SINGLE FLASH 150 ALTERNATE.
 D) SINGLE FLASH 75 SIMULTANEOUS PHASE 0.

- Multi 3: A) DOUBLE FLASH 125 ALTERNATE.
 B) SINGLE FLASH 150 ALTERNATE.
 C) DOUBLE FLASH 250 SIMULTANEOUS PHASE 0.
 D) SINGLE FLASH 150 SIMULTANEOUS PHASE 0.

7) For Two Color Lamps, when both halves of the lamp are flashed together, these Flash Patterns only use one color.

For Color selection 1:2 (and 1/2 for Steady Burn) - only Color 1 is used.

For Color selection 2:1 (and 2/1 for Steady Burn) - only Color 2 is used.

8) For Two Color Lamps, the colors used for CW and CCW Flash Patterns are:

For Color selection 1:2 - UL and LR are Color 1, UR and LL are Color 2.

For Color selection 2:1 - UL and LR are Color 2, UR and LL are Color 1.